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DATE: 01/08/2002

TIME: 15:38:44 PATENT APPLICATION: US/09/988,462

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## 4 (1) GENERAL INFORMATION: (i) APPLICANT: Koziel, Michael G. Desai, Nalini M. 7 Lewis, Kelly S. 8 Kramer, Vance C. 9 Warren, Gregory W. 10 Evola, Stephen V. 11 Crossland, Lyle D. 12 Wright, Martha S. 13 Merlin, Ellis J. 14 Launis, Karen L. 15 Rothstein, Steven J. w--> 16 Bowman, Cindy G. W--> 17 Dawson, John L. W--> 18 Dunder, Erik M. W--> 19 Pace, Gary M. W--> 20 Suttie, Janet L. W--> 21 (ii) TITLE OF INVENTION: SYNTHETIC DNA SEQUENCE HAVING ENHANCED 23 INSECTICIDAL ACTIVITY IN MAIZE 24 (iii) NUMBER OF SEQUENCES: 94 26 (iv) CORRESPONDENCE ADDRESS: 28 (A) ADDRESSEE: Syngenta Biotechnology, Inc. 29 (B) STREET: 3054 Cornwallis Road 30 (C) CITY: Research Triangle Park 31 (D) STATE: NC 32 (E) COUNTRY: USA 33 (F) ZIP: 27709 34 (V) COMPUTER READABLE FORM: 36 (A) MEDIUM TYPE: Floppy disk 37 (B) COMPUTER: IBM PC compatible 38 (C) OPERATING SYSTEM: PC-DOS/MS-DOS 39 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 40 (vi) CURRENT APPLICATION DATA: 42 (A) APPLICATION NUMBER: US/09/988,462 C--> 43 (B) FILING DATE: 20-Nov-2001 C--> 44 (C) CLASSIFICATION: 45 (vii) PRIOR APPLICATION DATA: 59 (A) APPLICATION NUMBER: US 09/547,422 48 (B) FILING DATE: 11-APR-2000 49 (A) APPLICATION NUMBER: US 08/459,504 52 (B) FILING DATE: 02-JUN-1995 53 (A) APPLICATION NUMBER: US 07/951,715 56 (B) FILING DATE: 25-SEP-1992 57 (A) APPLICATION NUMBER: US 07/772,027 60 (B) FILING DATE: 04-OCT-1991 61 (viii) ATTORNEY/AGENT INFORMATION:

63

RAW SEQUENCE LISTING

DATE: 01/08/2002 TIME: 15:38:44

PATENT APPLICATION: US/09/988,462

w. mi-albu									
64 (A) NAME: Meigs, J. Timothy									
65 (B) REGISTRATION NUMBER: 38,241									
(C) REFERENCE/DOCKET NUMBER: S-188051									
68 (ix) TELECOMMUNICATION INFORMATION:									
69 (A) TELEPHONE: (919)541-8587									
70 (B) TELEFAX: (919)541-8689									
72 (2) INFORMATION FOR SEQ ID NO: 1:									
74 (i) SEQUENCE CHARACTERISTICS:									
75 (A) LENGTH: 3468 base pairs									
76 (B) TYPE: nucleic acid									
77 (C) STRANDEDNESS: single									
78 (D) TOPOLOGY: linear									
80 (ii) MOLECULE TYPE: DNA (genomic)									
82 (iii) HYPOTHETICAL: NO									
04 (vi) ORIGINAL SOURCE:									
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86 (B) STRAIN: HD-1									
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90 (B) LOCATION: 13468									
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02 aryTA(h)"									
93 /note= "Appears in Figures 1 and 4 as BTHKURHD."									
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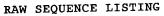
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DATE: 01/08/2002 TIME: 15:38:44 PATENT APPLICATION: US/09/988,462

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ALA CHERACECCA ACAACACEGT GACCTGCAAC GACTACACCG CCACCCAGGA GGAGTACGAG	3240
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357 (A) LENGTH: 1947 base pairs	
358 (B) TYPE: nucleic acid	
359 (C) STRANDEDNESS: single	
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TO THE COLUMN TH	
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/988,462

DATE: 01/08/2002 TIME: 15:38:46

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VERIFICATION SUMMARY

DATE: 01/08/2002 TIME: 15:38:46

PATENT APPLICATION: US/09/988,462

- 1405	w. 226	т.т.	Invalid	Δmino	Acid	Number	in	Coding	Region,	SEQ	ID:8
L:1425	M:330	W:	Invalid	Amino	Acid	Number	in	Coding	Region,	SEQ	ID:8
L:1429	M:336	w:	Invallu	AllILIIO	ACIG	Number	in	Coding	Region.	SEO	ID:8
L:1433	M:336	W :	Invalid	Amino	ACIG	Number	111	Coding	Rogion,	SEO	TD · 8
L:1437	M:336	W:	Invalid	Amino	Acid	Number	ın	Coarny	Region,	CEC	TD.0
	226	T.7 .	T = 1 i d	7 mino	Arid	Number	$_{\rm 1n}$	Coaring	region,	CHZ	10.0
	226	T.T .	Tarralid	λmin∩	Acid	Number	$_{\rm 1n}$	Coarna	Region,	SHO	10.0
	24 226	T.T.	Threalid	λmin∩	Acid	Number	$_{\rm 1n}$	Coaring	Region,	SUQ	ID. U
L:1449	M:330		Invalid	Amino	Acid	Number	in	Coding	Region,	SEQ	ID:8
L:1453	M:336	w:	Invalid	Amilio	Acid	Number	in	Coding	Region,	SEO	ID:8
L:1457	M:336	W :	Invalid	Amino	ACIG	Number	111	Coding	Pegion	SEO	TD:8
T.: 1461	M:336	W:	Invalid	Amino	Acid	Number	τn	Courns	Region,	מבט	